

John C Travers

List of Publications by Year in descending order

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155
papers

5,506
citations

87888

38
h-index

79698

73
g-index

156
all docs

156
docs citations

156
times ranked

2893
citing authors

#	ARTICLE	IF	CITATIONS
1	Hollow-core photonic crystal fibres for gas-based nonlinear optics. <i>Nature Photonics</i> , 2014, 8, 278-286.	31.4	439
2	A stable, wideband tunable, near transform-limited, graphene-mode-locked, ultrafast laser. <i>Nano Research</i> , 2010, 3, 653-660.	10.4	351
3	Ultrafast nonlinear optics in gas-filled hollow-core photonic crystal fibers [Invited]. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2011, 28, A11.	2.1	322
4	Zero-dispersion wavelength decreasing photonic crystal fibers for ultraviolet-extended supercontinuum generation. <i>Optics Express</i> , 2006, 14, 5715.	3.4	230
5	Deep-ultraviolet to mid-infrared supercontinuum generated in solid-core ZBLAN photonic crystal fibre. <i>Nature Photonics</i> , 2015, 9, 133-139.	31.4	227
6	Visible supercontinuum generation in photonic crystal fibers with a 400W continuous wave fiber laser. <i>Optics Express</i> , 2008, 16, 14435.	3.4	204
7	Hybrid photonic-crystal fiber. <i>Reviews of Modern Physics</i> , 2017, 89, .	45.6	200
8	High-energy pulse self-compression and ultraviolet generation through soliton dynamics in hollow capillary fibres. <i>Nature Photonics</i> , 2019, 13, 547-554.	31.4	181
9	Vacuum-ultraviolet to infrared supercontinuum in hydrogen-filled photonic crystal fiber. <i>Optica</i> , 2015, 2, 292.	9.3	158
10	29 W High power CW supercontinuum source. <i>Optics Express</i> , 2008, 16, 5954.	3.4	144
11	Femtosecond Nonlinear Fiber Optics in the Ionization Regime. <i>Physical Review Letters</i> , 2011, 107, 203901.	7.8	139
12	Tunable vacuum-UV to visible ultrafast pulse source based on gas-filled Kagome-PCF. <i>Optics Express</i> , 2013, 21, 10942.	3.4	136
13	Nanosecond-pulse fiber lasers mode-locked with nanotubes. <i>Applied Physics Letters</i> , 2009, 95, .	3.3	130
14	Theory of Photoionization-Induced Blueshift of Ultrashort Solitons in Gas-Filled Hollow-Core Photonic Crystal Fibers. <i>Physical Review Letters</i> , 2011, 107, 203902.	7.8	124
15	Supercontinuum generation in a water-core photonic crystal fiber. <i>Optics Express</i> , 2008, 16, 9671.	3.4	123
16	Extended blue supercontinuum generation in cascaded holey fibers. <i>Optics Letters</i> , 2005, 30, 3132.	3.3	102
17	Blue extension of optical fibre supercontinuum generation. <i>Journal of Optics (United Kingdom)</i> , 2010, 12, 113001.	2.2	96
18	Generation and direct measurement of giant chirp in a passively mode-locked laser. <i>Optics Letters</i> , 2009, 34, 3526.	3.3	94

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19	Supercontinuum generation in the vacuum ultraviolet through dispersive-wave and soliton-plasma interaction in a noble-gas-filled hollow-core photonic crystal fiber. <i>Physical Review A</i> , 2015, 92, .	2.5	93
20	Optical pulse compression in dispersion decreasing photonic crystal fiber. <i>Optics Express</i> , 2007, 15, 13203.	3.4	87
21	Soliton trapping of dispersive waves in tapered optical fibers. <i>Optics Letters</i> , 2009, 34, 115.	3.3	86
22	Multimode ultrafast nonlinear optics in optical waveguides: numerical modeling and experiments in kagomÃ© photonic-crystal fiber. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2014, 31, 311.	2.1	86
23	Generation of microjoule pulses in the deep ultraviolet at megahertz repetition rates. <i>Optica</i> , 2017, 4, 1272.	9.3	84
24	Influence of ionization on ultrafast gas-based nonlinear fiber optics. <i>Optics Express</i> , 2011, 19, 21018.	3.4	77
25	Bismuth fiber integrated laser mode-locked by carbon nanotubes. <i>Laser Physics Letters</i> , 2010, 7, 790-794.	1.4	74
26	Using the E22 transition of carbon nanotubes for fiber laser mode-locking. <i>Laser Physics Letters</i> , 2011, 8, 144-149.	1.4	74
27	Two techniques for temporal pulse compression in gas-filled hollow-core kagomÃ© photonic crystal fiber. <i>Optics Letters</i> , 2013, 38, 3592.	3.3	74
28	Generation of broadband mid-IR and UV light in gas-filled single-ring hollow-core PCF. <i>Optics Express</i> , 2017, 25, 7637.	3.4	65
29	Compressing $\frac{1}{4}$ -level pulses from 250â€‰fs to sub-10â€‰fs at 38-MHz repetition rate using two gas-filled hollow-core photonic crystal fiber stages. <i>Optics Letters</i> , 2015, 40, 1238.	3.3	64
30	Ultrafast Raman laser mode-locked by nanotubes. <i>Optics Letters</i> , 2011, 36, 3996.	3.3	60
31	Recent advances in supercontinuum generation in specialty optical fibers [Invited]. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2021, 38, F90.	2.1	59
32	Toward visible cw-pumped supercontinua. <i>Optics Letters</i> , 2008, 33, 2122.	3.3	56
33	Extreme supercontinuum generation to the deep UV. <i>Optics Letters</i> , 2012, 37, 770.	3.3	56
34	Mid-infrared dispersive wave generation in gas-filled photonic crystal fibre by transient ionization-driven changes in dispersion. <i>Nature Communications</i> , 2017, 8, 813.	12.8	51
35	As ₂ S ₃ silica double-nanospike waveguide for mid-infrared supercontinuum generation. <i>Optics Letters</i> , 2014, 39, 5216.	3.3	48
36	Extended continuous-wave supercontinuum generation in a low-water-loss holey fiber. <i>Optics Letters</i> , 2005, 30, 1938.	3.3	44

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37	Plasma-Induced Asymmetric Self-Phase Modulation and Modulational Instability in Gas-Filled Hollow-Core Photonic Crystal Fibers. <i>Physical Review Letters</i> , 2012, 109, 113902.	7.8	43
38	Infrared attosecond field transients and UV to IR few-femtosecond pulses generated by high-energy soliton self-compression. <i>Physical Review Research</i> , 2020, 2, .	3.6	40
39	Blue solitary waves from infrared continuous wave pumping of optical fibers. <i>Optics Express</i> , 2009, 17, 1502.	3.4	36
40	Single-mode hollow-core photonic crystal fiber made from soft glass. <i>Optics Express</i> , 2011, 19, 15438.	3.4	36
41	Combined soliton pulse compression and plasma-related frequency upconversion in gas-filled photonic crystal fiber. <i>Optics Letters</i> , 2013, 38, 2984.	3.3	36
42	Supercontinuum generation in ZBLAN glass photonic crystal fiber with six nanobore cores. <i>Optics Letters</i> , 2016, 41, 4245.	3.3	36
43	Photoionization-Induced Emission of Tunable Few-Cycle Midinfrared Dispersive Waves in Gas-Filled Hollow-Core Photonic Crystal Fibers. <i>Physical Review Letters</i> , 2015, 115, 033901.	7.8	35
44	Resonant dispersive wave emission in hollow capillary fibers filled with pressure gradients. <i>Optics Letters</i> , 2020, 45, 4456.	3.3	30
45	High-energy ultraviolet dispersive-wave emission in compact hollow capillary systems. <i>Optics Letters</i> , 2019, 44, 2990.	3.3	30
46	Role of pump coherence in the evolution of continuous-wave supercontinuum generation initiated by modulation instability. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2012, 29, 502.	2.1	29
47	Direct characterization of tuneable few-femtosecond dispersive-wave pulses in the deep UV. <i>Optics Letters</i> , 2019, 44, 731.	3.3	28
48	Coherent octave-spanning mid-infrared supercontinuum generated in As ₂ S ₃ -silica double-nanospike waveguide pumped by femtosecond Cr:ZnS laser. <i>Optics Express</i> , 2016, 24, 12406.	3.4	27
49	Ultrafast Molecular Spectroscopy Using a Hollow-Core Photonic Crystal Fiber Light Source. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 715-720.	4.6	26
50	Nonlinear optics in Xe-filled hollow-core PCF in high pressure and supercritical regimes. <i>Applied Physics B: Lasers and Optics</i> , 2013, 112, 457-460.	2.2	25
51	Generation of three-octave-spanning transient Raman comb in hydrogen-filled hollow-core PCF. <i>Optics Letters</i> , 2015, 40, 1026.	3.3	24
52	Highly efficient deep UV generation by four-wave mixing in gas-filled hollow-core photonic crystal fiber. <i>Optics Letters</i> , 2019, 44, 5509.	3.3	24
53	Long wavelength extension of CW-pumped supercontinuum through soliton-dispersive wave interactions. <i>Optics Express</i> , 2010, 18, 24729.	3.4	23
54	PHz-wide Supercontinua of Nondispersing Subcycle Pulses Generated by Extreme Modulational Instability. <i>Physical Review Letters</i> , 2013, 111, 033902.	7.8	23

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55	Chirped pulse formation dynamics in ultra-long mode-locked fiber lasers. <i>Optics Letters</i> , 2014, 39, 1398.	3.3	23
56	PHz-Wide Spectral Interference Through Coherent Plasma-Induced Fission of Higher-Order Solitons. <i>Physical Review Letters</i> , 2017, 118, 263902.	7.8	21
57	Efficient continuous-wave holey fiber Raman laser. <i>Applied Physics Letters</i> , 2005, 87, 031106.	3.3	20
58	Characterization of few-fs deep-UV dispersive waves by ultra-broadband transient-grating XFROG. <i>Optics Letters</i> , 2016, 41, 5535.	3.3	20
59	Intense few-cycle visible pulses directly generated via nonlinear fibre mode mixing. <i>Nature Photonics</i> , 0, , .	31.4	20
60	Control of ultrafast pulses in a hydrogen-filled hollow-core photonic-crystal fiber by Raman coherence. <i>Physical Review A</i> , 2018, 97, .	2.5	19
61	Angle-resolved photoemission spectroscopy with 9-eV photon-energy pulses generated in a gas-filled hollow-core photonic crystal fiber. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	17
62	Continuously wavelength-tunable high harmonic generation via soliton dynamics. <i>Optics Letters</i> , 2017, 42, 1768.	3.3	17
63	Fission of solitons in continuous-wave supercontinuum. <i>Optics Letters</i> , 2012, 37, 5217.	3.3	14
64	Broadband, low intensity noise CW source for OCT at 1800nm. <i>Optics Communications</i> , 2008, 281, 154-156.	2.1	13
65	Conservation of the photon number in the generalized nonlinear Schrödinger equation in axially varying optical fibers. <i>Physical Review A</i> , 2011, 84, .	2.5	10
66	Ultrafast circularly polarized pulses tunable from the vacuum to deep ultraviolet. <i>Optics Letters</i> , 2021, 46, 4057.	3.3	9
67	Generation of broadband circularly polarized deep-ultraviolet pulses in hollow capillary fibers. <i>Optics Letters</i> , 2020, 45, 5648.	3.3	9
68	From Raman Frequency Combs to Supercontinuum Generation in Nitrogen-Filled Hollow-Core Anti-Resonant Fiber. <i>Laser and Photonics Reviews</i> , 2022, 16, .	8.7	9
69	CW Supercontinuum Generation in Photonic Crystal Fibres with Two Zero-Dispersion Wavelengths. <i>AIP Conference Proceedings</i> , 2008, , .	0.4	7
70	Fabrication and Applications of Low Loss Nonlinear Holey Fibers. <i>Fiber and Integrated Optics</i> , 2009, 28, 51-59.	2.5	7
71	Timing and energy stability of resonant dispersive wave emission in gas-filled hollow-core waveguides. <i>JPhys Photonics</i> , 2021, 3, 025004.	4.6	7
72	Soliton self-compression and resonant dispersive wave emission in higher-order modes of a hollow capillary fibre. <i>JPhys Photonics</i> , 2022, 4, 034002.	4.6	7

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73	High average power supercontinuum sources. <i>Pramana - Journal of Physics</i> , 2010, 75, 769-785.	1.8	6
74	Narrow Linewidth Bismuth-Doped All-Fiber Ring Laser. <i>IEEE Photonics Technology Letters</i> , 2010, 22, 793-795.	2.5	6
75	Low loss hollow optical-waveguide connection from atmospheric pressure to ultra-high vacuum. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	6
76	Near-zero-index ultra-fast pulse characterization. <i>Nature Communications</i> , 2022, 13, .	12.8	6
77	Continuous wave supercontinuum generation. , 2010, , 142-177.		5
78	Stable Gain-Guided Soliton Propagation in a Polarized Yb-Doped Mode-Locked Fiber Laser. <i>IEEE Photonics Journal</i> , 2012, 4, 1058-1064.	2.0	4
79	Generation of 15 cycle pulses at 780 nm at oscillator repetition rates with stable carrier-envelope phase. <i>Optics Express</i> , 2019, 27, 24105.	3.4	4
80	Non-linear applications of microstructured optical fibres. <i>Optical and Quantum Electronics</i> , 2007, 39, 963-974.	3.3	3
81	Near-ionization-threshold emission in atomic gases driven by intense sub-cycle pulses. <i>New Journal of Physics</i> , 2016, 18, 023018.	2.9	3
82	Extremely broadband single-shot cross-correlation frequency-resolved optical gating using a transient grating as gate and dispersive element. <i>Review of Scientific Instruments</i> , 2017, 88, 073106.	1.3	3
83	A new model for CW supercontinuum generation. , 2008, , .		2
84	Soliton Self-Compression in Hollow Capillary Fibres. , 2019, , .		2
85	UV Continuum Generation in Ar-Filled Hollow-Core PCF. , 2012, , .		2
86	Multi-watt supercontinuum generation from 0.3 to 2.4 μm in PCF tapers. , 2007, , .		1
87	Pulse Compression in Dispersion Decreasing Photonic Crystal Fiber. , 2007, , .		1
88	Multi-watt supercontinuum generation from 0.3 to 2.4 μm in PCF tapers. , 2007, , .		1
89	2W/nm peak-power all-fiber supercontinuum source and its application to the characterization of periodically poled non-linear crystals. <i>Optics Communications</i> , 2007, 277, 134-137.	2.1	1
90	Trapping of dispersive waves by solitons in long lengths of tapered PCF. , 2008, , .		1

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91	Efficient Broadband Vacuum-Ultraviolet Generation in Gas-Filled Hollow-Core Photonic Crystal Fibers. , 2014, , .		1
92	Spatiotemporal Nonlinear Dynamics in Gas-Filled Photonic-Crystal Fibers. , 2014, , .		1
93	Self-focusing below the critical power in gas-filled hollow-core PCF. , 2017, , .		1
94	Compression of μJ -level pulses from 250 fs to sub-10 fs at 38 MHz repetition rate using two gas-filled hollow-core Kagomir-PCF stages. , 2014, , .		1
95	Broadband Ultraviolet Generation with 50% Conversion Efficiency in Hollow Capillary Fibers. , 2020, , .		1
96	Nanotube-based passively mode-locked Raman laser. , 2011, , .		1
97	Nonlinear intermodal interactions in gas-filled hollow-core photonic crystal fibre. , 2013, , .		1
98	PHz-Wide Spectral Interference Through Plasma-Induced Fission of Higher Order Solitons. , 2016, , .		1
99	Ultraviolet Supercontinuum Generation in Optical Fibers. , 2018, , .		1
100	Application of a 2W/nm all-fiber supercontinuum source to the characterization of nonlinear crystals. , 2006, , .		0
101	Broadband, Low Intensity Noise Source for Optical Coherence Tomography at 1.8 μm . , 2007, , .		0
102	2.1 μm CW Raman source in GeO_2 fiber. , 2007, , .		0
103	Broadband, low intensity noise source for optical coherence tomography at 1.8 μm . , 2007, , .		0
104	High Power Fibre-Integrated Supercontinuum Sources. AIP Conference Proceedings, 2008, , .	0.4	0
105	Short wavelength extension of CW-pumped supercontinuum at 1 micron. , 2008, , .		0
106	High power 29 W CW supercontinuum source. Proceedings of SPIE, 2008, , .	0.8	0
107	2 ns pulses from a fibre laser mode-locked by carbon nanotubes. , 2009, , .		0
108	Bismuth-Doped Fiber Integrated Ring Laser Mode-Locked with a Nanotube-Based Saturable Absorber. , 2010, , .		0

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109	Noise and Stability in Giant-Chirp Oscillators Mode-Locked with a Nanotube-Based Saturable Absorber. , 2010, , .		0
110	Giant chirp oscillators: Modeling and experiment. , 2010, , .		0
111	Soliton-dispersive wave collisions in high average power supercontinuum generation. , 2010, , .		0
112	Non-Solitonic Extension of Supercontinua. , 2011, , .		0
113	Incoherent soliton fission driven supercontinuum generation pumped by partially coherent light. , 2012, , .		0
114	Modulation Instability in Xenon-Filled Hollow-Core Photonic Crystal Fiber. , 2012, , .		0
115	Interaction between Kerr and Ionization Induced Nonlinear Fiber Optics. , 2012, , .		0
116	Modulation instability in the sub-cycle regime. , 2013, , .		0
117	Vacuum UV to IR supercontinuum generation by impulsive Raman self-scattering in hydrogen-filled PCF. , 2014, , .		0
118	Hollow-core photonic-crystal fibres for vacuum-ultraviolet nonlinear optics in gases. , 2015, , .		0
119	Scaling Optical Soliton Dynamics Over Twelve Orders of Magnitude: from One Watt Picosecond Pulses to Terawatt-Scale Sub-Femtosecond Pulses. , 2018, , .		0
120	High-Energy Soliton Dynamics in Gas-Filled Hollow Capillary Fibers. , 2018, , .		0
121	Introduction to the Special Issue on Fiber Lasers. IEEE Journal of Selected Topics in Quantum Electronics, 2018, 24, 1-2.	2.9	0
122	Soliton-Plasma Interactions and Dispersive-Wave Emission Beyond Two-Photon Resonances in Gas-Filled Hollow Capillary Fibres. , 2019, , .		0
123	Ultrafast Deep and Vacuum Ultraviolet Gas-Filled Hollow-Core Fibre Sources for Time-Resolved Photoelectron Spectroscopy. , 2019, , .		0
124	Soliton Self-Compression and UV Dispersive Wave Emission in Compact Hollow Capillary Systems. , 2019, , .		0
125	Bright, Tuneable and Compact Source of Few-Femtosecond Pulses in the Deep Ultraviolet. , 2021, , .		0
126	Energy Noise and Timing Jitter of Few-Femtosecond Pulses Generated by Resonant Dispersive Wave Emission in Hollow-Core Waveguides. , 2021, , .		0

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127	Progress in Soliton Dynamics in Hollow Capillary Fibres. , 2021, , .		0
128	Circularly Polarized DUV Pulses via Dispersive Wave Emission in Hollow Capillary Fibers. , 2021, , .		0
129	New developments in gas-filled hollow-fibre nonlinear optics. , 2021, , .		0
130	Pulse Compression at 1.06 μ m in Dispersion Decreasing Photonic Crystal Fibers. , 2007, , .		0
131	Pulse Formation Dynamics in Giant Chirp Oscillators. , 2010, , .		0
132	Soliton Eigenvalue Evolution in Plasma-Influenced Nonlinear Gas-Fiber Optics. , 2012, , .		0
133	Theory of Photoionization-induced Nonlinear Phenomena in Gas-filled Photonic Crystal Fibers. , 2012, , .		0
134	Widely-Tunable UV-Visible Source Using Gas-Filled Hollow-Core PCF. , 2012, , .		0
135	Two Schemes for Pulse Compression in Gas-Filled Kagom \AA -PCF. , 2013, , .		0
136	Generation and Control of Isolated Attosecond Pulses by Fiber-Compressed Sub-Cycle Pulses. , 2014, , .		0
137	Vacuum UV to IR supercontinuum generation by impulsive Raman self-scattering in hydrogen-filled PCF. , 2014, , .		0
138	Octave-spanning Supercontinuum From As ₂ S ₃ -silica Double-nanospike Waveguide Pumped by Femtosecond Cr:ZnS Laser at 2.35 μ m. , 2015, , .		0
139	Bright Tunable Photonic-Crystal-Fibre Light Sources in the Deep and Vacuum Ultraviolet. , 2015, , .		0
140	Supercontinuum generation in microstructured ZBLAN fibre with six nanobore cores. , 2016, , .		0
141	Fibre Based Supercontinuum. , 2016, , 199-245.		0
142	Photoionization-Induced Emission of Mid-IR Dispersive Waves in Gas-Filled Photonic Crystal Fibers. , 2016, , .		0
143	Femtosecond Micro-J Pulses in the Deep UV at MHz Repetition Rates. , 2017, , .		0
144	Scaling Soliton Dynamics in Hollow Fibers. , 2018, , .		0

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145	High-Energy VUV Generation in Gas-Filled Hollow Capillary Fibers. , 2018, , .		0
146	Experimental Demonstration of High-Energy Deep Ultraviolet Pulse Generation Through Soliton Dynamics in Gas-Filled Hollow Capillary Fibers. , 2018, , .		0
147	Sub-Cycle Infrared Pulses Through Soliton Self-Compression in Hollow Capillary Fibres. , 2020, , .		0
148	Optical soliton dynamics in hollow capillary fibres for the generation of extreme ultrafast laser pulses. , 2020, , .		0
149	High-Energy Infrared Soliton Dynamics in Hollow Capillary Fibres. , 2020, , .		0
150	Periodic Dispersive Wave Pattern Induced by Ozone Formation in Air-Filled Hollow-Core Fiber. , 2020, , .		0
151	Spectral and Temporal Control of Resonant Dispersive Wave Emission in Hollow Capillary Fibres Using Pressure Gradients. , 2020, , .		0
152	Optical attosecond pulses and bright VUV generation from soliton dynamics in hollow capillaries. , 2020, , .		0
153	Few-Cycle Visible Light Generation in a Hollow-Core Fiber. , 2021, , .		0
154	Advances in nonlinear optics in gas-filled hollow-core fibers. , 2021, , .		0
155	Efficient Generation of Bright Few-Femtosecond Deep Ultraviolet Pulses at 50 kHz Repetition Rate in a Compact System. , 2021, , .		0